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FORTY-SECOND

ANNUAL REPORT

OF THE

Medical Officer of Health

FOR THE YEAR 1940.

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GUERNESEY:
IMPRIMÉ PAR LA SOCIÉTÉ DITE "THE GUERNSEY 'STAR' AND 'GAZETTE' LIMITED."

BUREAU DE LA GAZETTE OFFICIELLE, RUE DU BORDAGE.

1941.

APPENDICE

No. I.

RAPPORT

DE

MONSIEUR L'OFFICIER DE LA SANTÉ PUBLIQUE, 1940.

III.—1941.

RAPPORT DE MONSIEUR L'OFFICIER DE LA SANTÉ PUBLIQUE POUR 1940.

States Office, Guernsey,
13th February, 1941.

SIR,

I have the honour to forward herewith the report of the Medical Officer of Health for the year 1940, with a request that you will be so good as to cause it to be published as an appendix to a future Billet d'Etat, and that (say) 100 copies be struck off for distribution in the usual way.

I have the honour to be, Sir,
Your obedient Servant,

A. N. SYMONS,
President, Board of Health.

The Bailiff,
The Royal Court,
Guernsey.

States of Guernsey Health Office,
Lukis House, Guernsey.

GENTLEMEN,

I beg to forward my annual report for 1940. Most of the statistics have been necessarily divided into two groups ; for the six months up to the evacuation, and for the six months subsequent to the evacuation, as not only was the population nearly halved, but the age distribution was also altered.

The crude death rates were higher than in the previous years, as would be expected from the migration of large numbers of young people, giving a larger proportion of old people in the population. No corrected death rates can be given for this reason, as the factor of correction will now be smaller than before and is not exactly known.

Causes of death have been similarly treated so that some comparison may

be possible as to the effect of the altered conditions ; i.e., shortage of various food stuffs, such as meat and fat, and nervous strain due to fear.

The health of the Island was on the whole good throughout the year, and there was little infectious disease. Owing to the black-out and the evacuation, cinemas, etc., were less frequented, and so the chance of infection decreased ; and there is no doubt that in ordinary times many people eat far too much food, although of course the shortage of food is bound eventually to have detrimental effects to our health and resistance to disease.

I have the honour to be, Gentlemen,
Your obedient Servant,

ROWAN W. REVELL, M.D.,
Medical Officer of Health.

The President and Members,
Board of Health,
Guernsey.

STATISTICS.

TABLE I.

YEAR.	Estimated population to middle of each year.	BIRTHS		DEATHS			DEATHS under 1 year of age.	
		Number	Rate per 1,000.	Number	Crude Rate per 1,000.	Adjusted Rate per 1,000.	Number.	Rate per 1,000 Births
1928.....	39,000	813	20·8	485	12·4	9·9	48	59·0
1929.....	39,040	756	19·4	586	15·1	12·0	59	78·0
1930.....	40,215	757	18·8	486	12·1	9·6	50	66·0
1931.....	40,470	764	18·8	475	11·7	9·3	29	38·0
1932	40,640	762	18·7	470	11·5	9·1	47	62·0
1933..... ..	40,850	712	18·4	578	14·1	11·2	56	78·6
1934.....	40,900	751	18·3	528	12·9	9 0	38	50·6
1935.....	41,160	777	18·9	518	12·6	8·8	46	59·2
1936.....	41,960	708	16·9	545	12.9	9·0	42	59·3
1937.....	42,410	827	19·5	575	13·6	9·5	45	53·2
1938.....	43,015	851	19·8	524	12·2	8·5	37	43·4
1939.....	43,820	744	16·9	559	12·7	8·9	33	44·3
1940								
Jan.-June	43,000	400	18·6	334	15·5 ×	—	21	52·5
July-Dec.	23,976	168	14·0	179	~~15·6~~	—	6	35·7

× 14·0 per 1,000 excluding air raid deaths.

POPULATION.

The civil population at the middle of the first six months is estimated at 43,000, allowing for migration to England, and at the middle of the second six months, 23,976, allowing for a slight excess of deaths over births.

EMERGENCY CENSUS—JULY 1940.

MALES.

65 years and over	... 1,807	
64 ,, to 19 years	... 8,067	
18 ,, ,, 14 ,,	... 865	
13 ,, ,, 6 ,,	... 460	
5 ,, ,, 1 ,,	... 446	
		11,645

FEMALES.

60 years and over	... 2,931	
59 ,, to 19 years	... 7,322	
18 ,, ,, 14 ,,	... 843	
13 ,, ,, 6 ,,	... 551	
5 ,, ,, 1 ,,	... 469	
		12,116
Babies.		220
		23,981

AGE GROUPS.

	Over 65	19-64	1-18	Under 1 yr.	
Males per cent					
1931 Census	... 8.3	... 58.9	... 31.9	... 1.7	(Males & Females)
1940 Census	... 15.6	... 69.6	... 15.2	... 0.9	(Males & Females)

	Over 60	19–59	1–18
Females per cent			
1931 Census	... 14.5	... 55.6	... 29.1
1940 Census	... 24.1	... 60.3	... 15.2

The increased proportion of the old people will be noted, especially in the case of the females, nearly a quarter of them being over 60, and the halving of the proportion of the population under 19 years of age.

BIRTHS.

In the first six months there were 400 births, 211 males and 189 females, a rate of 18.6 per 1,000. In the second six months there were 168 births, 84 males and 84 females, a rate of 14.0 per 1,000. There were 16 still births during the year. Illegitimate children numbered 33, a rate of 5.8 per cent. of total births, an average rate.

DEATHS.

In the first six months there were 334 deaths, 185 males and 149 females, a rate of 15.5 per 1,000. In the second six months there were 179 deaths, 93 males and 86 females, a rate of ~~15.6~~ 14.8 per 1,000.

Table II.

PERCENTAGE OF DEATHS AT DIFFERENT AGE PERIODS.

	Under 1 year.	Years 1—5.	Years 5—15.	Years 15—25.	Years 25—65.	Over 65 years.
1900–1904	24.0	9.0	4.0	5.0	27.0	31.0
1905–1909	22.3	8.0	3.0	4.6	28.0	34.0
1910–1914	20.2	7.2	3.3	3.8	27.8	37.7
1915–1919	12.5	5.1	3.6	4.9	33.1	40.7
1920–1924	11.5	3.6	3.7	5.5	30.4	45.3
1925–1929	11.2	3.4	2.5	4.0	30.2	48.6
1930–1934	8.6	2.9	1.7	3.2	30.5	53.1
1935–1939	7.4	2.3	2.1	2.4	30.0	55.8
1940						
Jan-June	5.9	2.9	1.2	1.5	34.4	55.1
July-Dec.	3.3	0	0	1.6	31.3	63.8

MATERNAL MORTALITY.

There were no deaths from confinements.

Under the Ordonnance ayant rapport aux Sages Femmes, medical assistance was sought in 93 confinements, 79 before the evacuation and 14 after. For the last six months all women were advised to enter the Emergency Hospital for their confinements.

The expenditure was as follows :—

Cost of forms, etc., and fees to Medical Practitioners	£186 0 0
Sum received from patients	£ 15 10 0
Net Cost	£170 10 0

Three warning letters were sent under the Ordonnance.

INFANT MORTALITY.

In the first six months there were 20 deaths of infants under one year of age, giving a rate of 52.5 per 1,000 live births. In the second six months there were 6 deaths, a rate of 35.7 per 1,000.

For the whole year the rate was 47.5 per 1,000.

CANCER.

In the first six months there were 34 deaths from Cancer, giving a rate of 1.5 per 1,000. In the second six months there were 31 deaths, a rate of 2.5 per 1,000.

MARRIAGES.

There were 291 marriages in the first six months, a rate of 13.5 per 1,000, and 72 marriages in the second six months, a rate of 6.0 per 1,000.

INFECTIOUS DISEASES.

There was little infectious disease during the year, with the exception of Encephalitis and Poliomyelitis, of which there was a serious outbreak of 20 cases and a small outbreak of Scarlet Fever. Owing to the evacuation the number of children coming under the law of compulsory inoculation against Diphtheria was small, and the number inoculated was 416. Very few children coming under the law are not inoculated. Warning notices have been sent to these parents and 6 prosecutions taken. There were only 11 cases of Diphtheria, and no cases after June, showing the efficacy of inoculation.

The following cases were admitted to the King Edward Sanatorium :—

	No.	Deaths.
Malignant Pustule	1	
Pulmonary Tuberculosis	39	7
Diphtheria	11	
Scarlet Fever	21	
Influenza	1	
Pertussis	1	
German Measles	5	
Erysipelas	1	
Poliomyelitis	4	1
Encephalitis	16	1
Scabies	12	
Tonsilitis	2	
Enteritis	1	
Paratyphoid	1	
Chickenpox	2	
	118	9

TUBERCULOSIS.

In the first six months there were 13 deaths from Tuberculosis: Pulmonary, 10; non-Pulmonary, 3, a rate of 0.60, 0.46 and 0.14 per 1,000 respectively.

For the second six months there were 10 deaths from Pulmonary Tuberculosis, a rate of 0.84 per 1,000, which is nearly double the rate for the first six months. The rates for 1939 were 0.65, 0.62 and 0.02 per 1,000 respectively.

The attendance at the clinic were as follows :—

New cases diagnosed as Pulmonary Tuberculosis	27
,, ,, ,, ,, not Tubercular	10
Attendance of old cases	54
X-rays taken	12

HOUSING.

This has been reduced owing to the war, and the details of the work done are given in the report of the Senior Sanitary Inspector.

MILK SUPPLIES.

Numerous visits have been paid to farms, and constant supervision of the milk depôts has been maintained.

Details are given in the report of the Senior Sanitary Inspector.

For samples taken during the first six months the average fat content was 4.49 per cent. and the non-fatty solids 8.99 per cent. For the second six months the average fat content was 4.24 per cent. and the non-fatty solids 8.48 per cent. Considering the difficulty of feeding the cattle during the second six months, I consider the milk content as shown by the analyses, highly creditable. The cleanliness of the milk supplies has now greatly improved; for the past 3 months being onlv 2 per cent dirty, as compared with 16 per cent for the previous 3 months.

LABORATORY.

There were 381 examinations carried out, including 95 for Diphtheria, 113 for Tuberculosis, 142 for Anthrax, 3 Urines, 19 for Meningitis, 1 for Malaria 1 for Vincent's Angina, 5 eye smears, 1 for Pernicious Anaemia and one for Dysentery.

V.D. CLINIC.

Female Section.

Number of new cases	Syphilis 2	G.C. 7
Number of patients seen by Medical Officer		290
Number of swabs taken		59
Number of injections given	Intravenous	34
,, ,, ,, ,, ...	Intramuscular	17
Other treatment		19

Male Section.

Number of new cases	...Syphilitis 5 G.C. 10	
Not V.D.	... ...	3
Number of patients seen by Medical Officer—	Syphilis 134	
	G.C. 110	
		244
Number of Injections given.	Intravenous.	85
,, ,, ,, ,,	Intramuscular.	102
Number of Irrigations	... ...	154
Patients treated with Vaccine	...	7
Treatment with Bougies	...	9
Patients treated with M & B 693	...	8

54 Blood tests were taken in 1940.

WATER SUPPLIES.

Numerous examples of both States and well waters have been taken, details being given in the Sanitary Inspector's report. The States' water has been satisfactory, and careful supervision of the chlorination has been carried out. On the other hand, many of the well waters are highly contaminated and unfit for drinking.

CAUSES OF AND AGES AT DEATH, OF DEATHS REGISTERED JAN.–JUNE, 1940.

	Under 1 yr	1-2	2-5	5-15	15-25	25-65	Over 65	Total.
No. 1. *Epidemic, Endemic and Infectious Diseases.*								
Pertussis	–	1	1	–	–	–	–	2
Influenza	–	–	–	–	–	4	1	5
Toxæmia	–	–	–	–	–	–	1	1
Poliomyelitis	–	–	–	–	–	1	–	1
Encephalitis Lethargica	–	–	1	–	–	–	–	1
Tuberculosis—								
Pulmonary	–	–	–	–	1	9	–	10
Meningeal	–	–	–	–	–	1	–	1
Peritoneal	–	–	–	1	1	–	–	2
Syphilis	–	–	–	–	–	1	–	1
No. 2. *Cancer and other Tumours—*								
Buccal cavity	–	–	–	–	–	–	2	2
Oesophagus	–	–	–	–	–	–	1	1
Stomach	–	–	–	–	–	2	8	10
Rectum	–	–	–	–	–	–	1	1
Colon	–	–	–	–	–	–	7	7
Pancreas	–	–	–	–	–	–	1	1
Lungs	–	–	–	–	–	1	1	2
Other female genital organs—								
Uterus	–	–	–	–	–	1	–	1
Vulva	–	–	–	–	–	–	1	1
Breast	–	–	–	–	–	2	1	3
Male genito-urinary organs	–	–	–	–	–	2	–	2
Cerebral tumour	–	–	–	–	–	2	–	2
Sarcoma of thigh	–	–	–	–	–	–	1	1
No. 3. *Rheumatism and Diseases of the Endocrine Glands—*								
Rheumatoid arthritis	–	–	–	–	–	–	1	1
Diabetis mellitus	–	–	–	–	–	1	3	4
Myxoedema	–	–	–	–	–	1	–	1
Carried forward	–	1	2	1	2	28	30	64

Brought forward ...	– ...	1 ...	2 ...	1 ...	2 ...	28 ...	30 ...	64
No. 4. *Diseases of the Blood and Blood-forming Organs—*								
Pernicious Anæmia	– ...	– ...	– ...	– ...	– ...	– ...	1 ...	1
Leukæmia	– ...	– ...	– ...	– ...	– ...	– ...	1 ...	1
No. 5. *Chronic Poisoning—*								
Chronic Alcoholism	– ...	– ...	– ...	– ...	– ...	2 ...	– ...	2
No. 6. *Diseases of the Nervous System and Sense Organs—*								
Apoplexy	– ...	– ...	– ...	– ...	– ...	1 ...	1 ...	2
Cerebral Hæmorrhage	– ...	– ...	– ...	– ...	– ...	2 ...	3 ...	5
Embolism	– ...	– ...	– ...	– ...	– ...	1 ...	1 ...	2
Thrombosis	– ...	– ...	– ...	– ...	– ...	– ...	5 ...	5
Cerebral Softening	– ...	– ...	– ...	– ...	– ...	1 ...	– ...	1
Hemiplegia	– ...	– ...	– ...	– ...	– ...	– ...	3 ...	3
Paralysis Agitans ...	– ...	– ...	– ...	– ...	– ...	– ...	1 ...	1
Disseminated Sclerosis	– ...	– ...	– ...	– ...	– ...	1 ...	– ...	1
Anorexia nervosa ...	– ...	– ...	– ...	– ...	– ...	1 ...	– ...	1
Infantile Convulsions	1 ...	– ...	– ...	– ...	– ...	– ...	– ...	1
Tabes	– ...	– ...	– ...	– ...	– ...	– ...	1 ...	1
No. 7. *Diseases of the Circulatory System—*								
Acute Endocarditis...	– ...	– ...	– ...	1 ...	– ...	– ...	– ...	1
Mitral Disease ...	– ...	– ...	– ...	– ...	– ...	– ...	1 ...	1
Chronic Endocarditis	– ...	– ...	– ...	– ...	– ...	– ...	2 ...	2
Valvular Disease ...	– ...	– ...	– ...	– ...	– ...	1 ...	2 ...	3
Myocarditis	– ...	– ...	– ...	– ...	– ...	7 ...	11 ...	18
Coronary Thrombosis	– ...	– ...	– ...	– ...	– ...	3 ...	3 ...	6
Morbus cordis ...	– ...	– ...	– ...	– ...	– ...	8 ...	6 ...	14
Angina pectoris ...	– ...	– ...	– ...	– ...	– ...	– ...	4 ...	4
Auricular fibrillation	– ...	– ...	– ...	– ...	– ...	1 ...	1 ...	2
Arterio Sclerosis ...	– ...	– ...	– ...	– ...	– ...	4 ...	8 ...	12
Hyperpiesis	– ...	– ...	– ...	– ...	– ...	1 ...	– ...	1
Embolism	– ...	– ...	– ...	– ...	– ...	2 ...	– ...	2
Atheroma	– ...	– ...	– ...	– ...	– ...	1 ...	1 ...	2
Carried forward	1 ...	1 ...	2 ...	2 ...	2 ...	65 ...	86 ...	159

Brought forward	1	1	2	2	2	65	86	159
No. 8. *Diseases of the Respiratory System*—								
Acute Bronchitis	1	1	–	–	–	–	5	7
Chronic Bronchitis	–	–	–	–	–	1	5	6
Bronchitis	–	–	–	–	–	1	5	6
Broncho-pneumonia	–	1	–	–	–	2	1	4
Lobar pneumonia	–	–	–	–	–	–	2	2
Pneumonia	1	1	–	–	–	–	2	4
Asthma	–	–	–	–	–	1	1	2
Sinusitis	–	–	–	–	–	1	–	1
No. 9. *Diseases of the Digestive System*—								
Ulcer of the Duodenum	–	–	–	–	–	–	1	1
Gastric Ulcer	–	–	–	–	–	1	1	2
Intestinal obstruction	–	–	–	–	–	1	–	1
Gangrene of Intestine	–	–	–	–	–	1	–	1
Strangulated Hernia	–	–	–	–	–	–	1	1
Enteritis	–	1	–	–	–	–	–	1
Suppurated tonsils	–	–	–	–	–	1	–	1
No. 10. *Non-Venereal Diseases of the Genito-urinary System and Annexa*—								
Nephritis	–	–	–	–	–	2	–	2
Chronic Nephritis	–	–	–	–	–	4	1	5
Pyelo-Nephritis	–	–	–	–	–	–	1	1
Polecystic Kidneys	–	–	–	–	–	1	–	1
Uræmia	–	–	–	–	–	2	2	4
Enlarged Prostate	–	–	–	–	–	–	1	1
No. 14. *Congenital Malformation*—								
Hydrocephalus	1	–	–	–	–	–	–	1
Congenital Heart	2	–	–	–	–	–	–	2
Pyloric Stenosis	1	–	–	–	–	–	–	1
Carried forward	7	5	2	2	2	84	115	217

Brought forward ...	7 ...	5 ...	2 ...	2 ...	2 ...	84 ...	115 ...	217
No. 15. *Diseases of Early Infancy*—								
Prematurity ...	7 ...	– ...	– ...	– ...	– ...	– ...	– ...	7
Marasmus	5 ...	1 ...	– ...	– ...	– ...	– ...	– ...	6
No. 16. *Old Age Senility*—								
Senility	– ...	– ...	– ...	– ...	– ...	– ...	54 ...	54
No. 17. *Deaths from Violence*—								
Accidental Deaths ...	1 ...	1 ...	– ...	– ...	1 ...	6 ...	4 ...	13
Suicide	– ...	– ...	– ...	– ...	– ...	4 ...	1 ...	5
No. 18. *Ill-defined Diseases*—								
Athenia	– ...	1 ...	– ...	– ...	– ...	– ...	– ...	1
No. 19.								
War Operations ...	– ...	– ...	– ...	2 ...	2 ...	21 ...	6 ...	31
	20 ...	8 ...	2 ...	4 ...	5 ...	115 ...	180 ...	334

CAUSES OF AND AGES AT DEATH, OF DEATHS REGISTERED JULY–DECEMBER 1940.

	Under 1 yr.	1-2	2-5	5-15	15-25	25-65	Over 65	Total.
No. 1. *Epidemic, Endemic and Infectious Diseases*—								
Pulmonary Tuberculosis	–	–	–	–	2	6	2	10
Encephalitis Lethargica	–	–	–	–	–	2	–	2
No. 2. *Cancer and other Tumours*—								
Oesophagus	–	–	–	–	–	–	2	2
Stomach	–	–	–	–	–	5	1	6
Rectum	–	–	–	–	–	1	–	1
Colon	–	–	–	–	–	2	7	9
Pancreas	–	–	–	–	–	1	1	2
Gall-bladder	–	–	–	–	–	–	1	1
Liver	–	–	–	–	–	1	2	3
Other Female Genital Organs—								
Uterus	–	–	–	–	–	1	–	1
Vulva	–	–	–	–	–	–	1	1
Breast	-	–	–	–	–	1	1	2
Skin	–	–	–	–	–	1	–	1
Male Genito-urinary organs	–	–	–	–	–	–	1	1
Sarcoma of mediastina.	–	–	–	–	–	1	–	1
No. 3. *Rheumatism and Diseases of Endocrine Glands*—								
Diabetes Mellitus	–	–	–	–	–	1	1	2
Lymphadenoma	–	–	–	–	–	1	–	1
Addison's Disease	–	–	–	–	–	1	–	1
No. 4. *Diseases of the Blood and Blood-forming Organs*—								
Pernicious Anæmia	–	–	–	–	–	–	1	1
Leukæmia	–	–	–	–	–	2	–	2
Carried forward	–	–	–	–	2	27	21	50

Brought forward ...	–	–	–	–	2	27	21	50
No. 6. *Diseases of the Nervous System and Sense Organs—*								
Cerebral Hæmorrhage	–	–	–	–	–	2	8	10
Cerebral Embolism	–	–	–	–	–	1	–	1
Cerebral Thrombosis	–	–	–	–	–	1	1	2
Paralysis agitans ...	–	–	–	–	–	–	1	1
Amyotrophic lateral sclerosis	–	–	–	–	–	1	–	1
Tabes	–	–	–	–	–	1	–	1
Epilepsy	–	–	–	–	–	1	–	1
Peripheral Neuritis ...	–	–	–	–	–	1	–	1
No. 7. *Diseases of the Circulatory System—*								
Acute Endocarditis...	–	–	–	–	–	1	–	1
Endocarditis ...	–	–	–	–	–	1	1	2
Myocarditis	–	–	–	–	–	1	8	9
Coronary Thrombosis	–	–	–	–	–	–	1	1
Myocardial degeneration	–	–	–	–	–	1	4	5
Morbus cordis ...	–	–	–	–	–	2	6	8
Heart Block ...	–	–	–	–	–	1	–	1
Arterio Sclerosis ...	–	–	–	–	–	–	4	4
Gangrene	–	–	–	–	–	–	2	2
Cardiac Failure ...	1	–	–	–	–	–	1	2
Embolism	–	–	–	–	–	–	1	1
No. 8. *Diseases of the Respiratory System—*								
Chronic Bronchitis ...	–	–	–	–	–	1	–	1
Lobar pneumonia	–	–	–	–	–	1	1	2
Broncho-pneumonia	–	–	–	–	–	–	2	2
Bronchitis	–	–	–	–	–	–	1	1
Asthma	–	–	–	–	–	–	1	1
Carried forward ...	1	–	–	–	2	44	64	111

Brought forward ...	1	–	–	–	2	44	64	111
No. 9. *Diseases of the Digestive System*—								
Stomatitis	–	–	–	–	–	1	2	3
Gastric Ulcer ...	–	–	–	–	–	1	–	1
Duodenal Ulcer ...	–	–	–	–	–	–	1	1
Intestinal Obstruction	–	–	–	–	–	–	1	1
Strangulated Hernia	–	–	–	–	–	–	1	1
Enteritis	–	–	–	–	.	1	–	1
Cirrhosis of Liver ...	–	–	–	–	–	–	1	1
Acute Pancreatitis ...	–	–	–	–	–	–	1	1
Obstruction of Gall-bladder	–	–	–	–	–	–	1	1
No. 10. *Non-Venereal Diseases of the Genito-Urinary System and Annexa*—								
Nephritis	–	–	–	–	–	–	1	1
Chronic Nephritis	–	–	–	–	–	–	3	3
Pyelo-nephritis ...	–	–	–	–	–	–	1	1
Renal Calculus ...	–	–	–	–	–	–	1	1
Enlarged Prostate ...	–	–	–	–	–	–	1	1
No. 14. *Congenital Malformations*—								
Congenital Heart ...	1	–	–	–	–	–	–	1
Spina Bifida ...	1	–	–	–	–	–	–	1
No. 15. *Diseases of early Infancy*—								
Marasmus	1	–	–	–	–	–	–	1
Prematurity ...	2	–	–	–	–	–	–	2
No. 16. *Old Age*—								
Senility	–	–	–	–	–	–	33	33
No. 17. *Deaths from Violence*—								
Accidental Death ...	–	–	–	–	–	6	–	6
Suicide	–	–	–	–	–	2	2	4
No. 19.								
War Operations ...	–	–	–	–	1	1	–	2
	6	–	–	–	3	56	114	179

RETURN OF BIRTHS AND DEATHS REGISTERED DURING 1940.

BIRTHS.

PARISH LETTER :	St. P.-Port. A	St. Sampson B	Vale. C	Castel. D	St. Saviour. E	St. Pierre-du-Bois. F	Torteval. G	Forest. H	St. Martin. I	St. Andrew. K	*Total*
Males	127	21	17	75	4	14	1	5	23	8	295
Females	126	15	19	75	7	5	2	2	16	6	273
Total	253	36	36	150	11	19	3	7	39	14	568
Still Births—											
Males	2	–	–	1	–	–	–	–	2	–	5
Females	6	1	1	3	–	–	–	–	–	–	11
Total	8	1	1	4	–	–	–	–	2	–	16

DEATHS.

No. 1. *Epidemic, Endemic and Infectious Diseases*—										
Pertussis	1	–	–	1	–	–	–	–	–	2
Influenza	1	1	–	1	–	–	–	–	2	5
Toxæmia	–	1	–	–	–	–	–	–	–	1
Poliomyelitis	–	–	–	1	–	–	–	–	–	1
Encephalitis Lethargica	2	–	–	1	–	–	–	–	–	3
Tuberculosis—										
Pulmonary	8	2	3	6	–	–	–	1	–	20
Meningeal	–	–	–	1	–	–	–	–	–	1
Peritoneal	1	–	–	1	–	–	–	–	–	2
Syphilis	1	–	–	–	–	–	–	–	–	1
Carried forward	14	4	3	12	–	–	–	1	2	–	36

Brought forward	14	4	3	12	–	–	–	1	2	–	36
No. 2. *Cancer and other Tumours*—											
Buccal Cavity ...	1	–	–	1	–	–	–	–	–	–	2
Oesophagus ...	2	–	–	–	–	–	–	–	1	–	3
Stomach ...	1	4	1	4	–	1	–	–	5	–	16
Rectum	–	–	1	1	–	–	–	–	–	–	2
Colon	7	–	1	5	1	–	–	1	1	–	16
Pancreas ...	–	–	1	2	–	–	–	–	–	–	3
Lungs	1	–	–	–	–	–	–	1	–	–	2
Liver	1	–	2	–	–	–	–	–	–	–	3
Gall Bladder ...	1	–	–	–	–	–	–	–	–	–	1
Other Female Genital Organs—											
Uterus	–	–	–	2	–	–	–	–	–	–	2
Vulva	1	–	–	1	–	–	–	–	–	–	2
Breast	2	1	1	1	–	–	–	–	–	–	5
Skin	–	–	–	–	1	–	–	–	–	–	1
Male Genito-Urinary Organs ...	1	–	–	1	–	–	–	–	1	–	3
Sarcoma of Thigh	–	1	–	–	–	–	–	–	–	–	1
Sarcoma of mediastinal	–	–	–	1	–	–	–	–	–	–	1
Cerebral Tumour	1	–	1	–	–	–	–	–	–	–	2
No. 3. *Rheumatism and Diseases of Endocrine Glands*—											
Rheumatoid Arthritis	–	–	–	–	–	–	–	–	–	1	1
Diabetes mellitus	1	1	1	2	–	–	–	–	1	–	6
Lymphadenoma	1	–	–	–	–	–	–	–	–	–	1
Addison's Disease	–	–	–	–	–	–	–	–	–	1	1
Myxoedema ...	1	–	–	–	–	–	–	–	–	–	1
No. 4. *Diseases of the Blood and Blood-forming Organs*—											
Pernicious Anæmia	2	–	–	–	–	–	–	–	–	–	2
Leukæmia ...	1	–	–	1	–	–	–	–	1	–	3
Carried forward	39	11	12	34	2	1	–	3	12	2	116

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Brought forward	89	17	23	55	6	2	–	6	31	6	235
Mitral Disease	1	–	–	–	–	–	–	–	–	–	1
Auricular Fibrillation	–	–	–	1	–	–	–	–	–	1	2
Arterio sclerosis	8	1	3	1	–	–	–	2	1	–	16
Atheroma	1	–	–	–	–	1	–	–	–	–	2
Hyperpiesis	–	–	–	–	–	1	–	–	–	–	1
Gangrene	2	–	–	–	–	–	–	–	–	–	2
Embolism	2	–	1	–	–	–	–	–	–	–	3
Cardiac Failure	–	–	–	1	–	–	–	–	–	–	1
No. 8. *Diseases of the Respiratory System*—											
Acute Bronchitis	3	–	–	2	–	–	–	–	1	1	7
Chronic Bronchitis	4	1	1	–	–	–	–	–	–	1	7
Bronchitis	4	1	1	1	–	–	–	–	–	–	7
Broncho-pneumonia	2	1	–	2	–	–	–	–	1	–	6
Lobar-pneumonia	1	–	–	1	–	–	–	–	2	–	4
Pneumonia	2	–	1	–	1	–	–	–	–	–	4
Asthma	1	2	–	–	–	–	–	–	–	–	3
Sinusitis	1	–	–	–	–	–	–	–	–	–	1
No. 9. *Diseases of the Digestive System*—											
Stomatitis	1	–	–	1	1	–	–	–	–	–	3
Suppurated tonsils	1	–	–	–	–	–	–	–	–	–	1
Gastric Ulcer	1	–	–	1	–	–	–	–	–	1	3
Duodenal Ulcer	1	–	–	1	–	–	–	–	–	–	2
Intestinal Obstruction	1	–	1	–	–	–	–	–	–	–	2
Gangrene of Intestine	1	–	–	–	–	–	–	–	–	–	1
Strangulated Hernia	1	–	–	1	–	–	–	–	–	–	2
Enteritis	1	–	–	1	–	–	–	–	–	–	2
Cirrhosis of Liver	–	–	–	–	–	–	–	–	–	1	1
Acute Pancreatitis	–	–	–	1	–	–	–	–	–	–	1
Obstruction of Gall-bladder	–	–	1	–	–	–	–	–	–	–	1
Carried forward	129	23	32	70	8	4	–	8	36	11	321

Brought forward	129	23	32	70	8	4	–	8	36	11	321
No. 10. *Non-venereal Diseases of the Genito-Urinary System and Annexa*—											
Nephritis... ...	–	–	1	–	–	–	1	1	–	–	3
Chronic Nephritis	4	2	–	1	–	1	–	–	–	–	8
Pyelo-nephritis	–	–	–	–	–	1	–	–	1	–	2
Polecystic Kidneys	1	–	–	–	–	–	–	–	–	–	1
Uræmia	4	–	–	–	–	–	–	–	–	–	4
Renal Calculus ...	–	–	–	1	–	–	–	–	–	–	1
Enlarged Prostate	–	–	–	1	–	–	–	–	1	–	2
No. 14. *Congenital Malformations*—											
Congenital Heart	1	1	1	–	–	–	–	–	–	–	3
Hydrocephalus	1	–	–	–	–	–	–	–	–	–	1
Spina Bifida ...	1	–	–	–	–	–	–	–	–	–	1
Pyloric Stenosis	1	–	–	–	–	–	–	–	–	–	1
No. 15. *Diseases of Early Infancy*—											
Marasmus ...	4	–	1	–	–	–	–	1	1	–	7
Prematurity ...	3	1	1	1	1	1	–	–	–	1	9
No. 16. *Old Age*—											
Senility	53	7	9	7	1	1	1	1	6	1	87
No. 17. *Deaths from Violence*—											
Accidental Death	8	3	3	5	–	–	–	–	–	–	19
Suicide	4	–	–	3	1	–	–	1	–	–	9
No. 18. *Ill-Defined Diseases*—											
Asthenia ...	1	–	–	–	–	–	–	–	–	–	1
No. 19.											
War Operations	24	–	–	8	–	–	–	1	–	–	33
	239	37	48	97	11	8	2	13	45	13	513

Rapport de l'Inspecteur de Sanitation.

States of Guernsey Health Office,
Lukis House, Guernsey.

SIR,

I beg to forward my annual report for the year 1940.

HOUSING.

	Jan.-June	July-Dec.
Total number of routine inspections of dwelling houses ...	50	82
Total number of routine inspections *re* notifiable infectious diseases	18	2
Total number of houses inspected at request of Homes for Workers Committee	21	20
Total number of inspections for sanitary arrangements and water only	36	125
Total number of re-inspections	74	...

HOUSES CLEANED AND INSPECTED JULY–DEC. 1940.

	Cleaned.	Inspected only.
St. Peter Port	97	110
St. Sampson's	49	50
Vale	31	57
Castel	11	37
St. Saviour's	—	1
St. Peter's	6	1
Torteval	—	—
Forest	8	2
St. Martin's	5	35
St. Andrew's	1	9
	208	302

	Jan.-June.	July-Dec.
Complaints investigated and abated	40	—
Nuisances investigated and abated	48	—
Appointments with and interviews with States and Parish officials and others	88	12

FARMS.

Farms, dairies and piggeries inspected and re-inspected...	174	94
Farmers warned for unsatisfactory cleansing and dirty milk	32	10

SANITARY DEFECTS REMEDIED AND WORK CARRIED OUT.

Obsolete closets replaced	23
Interceptors inserted in existing drains	6
Vent and soil pipes provided and/or renewed	16
New cesspits	4
Privies condemned	3
General repairs to houses	6
Soakaways constructed	3
Defective drains repaired	1
Septic tanks cleansed	1
Domestic water supplies installed	8
Houses closed permanently	4
Houses closed temporarily	1

MILK AND FOOD ANALYSES.

Figures for milk and food analysis will, as the previous tables, be divided into two half-yearly groups.

Four samples of milk and one of butter were submitted to the Royal Institute of Public Health and Hygiene for analysis. The milk samples were taken from the four quarters of a cow which I suspected to be suffering from mastitis. The analysis proved that each quarter was heavily infected with hæmolytic streptococci. The cow was subsequently destroyed.

The following samples were taken from various farmers and from the States Dairy.

Samples taken January-June.

Full Samples (Whole Milk)	18
Cream (Sweet)	1
Cream, for Fat only	2
Methylene Blue and Fat (Whole Milk)	61
Methylene Blue only	18
Fat only	5
Methylene Blue and Fat and Mastitis 4	
Mastitis and Hæmolytic Streptococci 1	5
(N.B.—Methylene Blue is the test for cleanliness)	110

Samples taken July-December.

Full Samples (Whole Milk)	166	173
Full Samples (Separated Milk)	7	
Cream (Sweet)	21	23
Cream (Sour)	2	
Methylene Blue and Fat (Whole Milk)	182	296
Methylene Blue and Fat (Partially Separated)	37	
Methylene Blue and Fat (Separated)	77	
Methylene Blue only (Whole Milk)	57	60
Methylene Blue only (Separated Milk)	3	
Fat only (Whole Milk)	9	29
Fat only (Partially Separated)	12	
Fat only (Separated)	8	
Butter		1
Fat and Specific Gravity (Partially Separated)		7
		589

Of the samples taken from January to June the highest fat content was 7.6% with 9.76% solids not fat, and the lowest 2.15% fat with 8.43% solids not fat. The average for the total number of samples was fat 4.49% and solids not fat 8.99%. Of the samples taken from July to December the highest fat content was 6.7% with solids not fat 9.33%, and the lowest 2.4% fat with 5.84% solids not fat. The average for the total number of samples was fat 4.24% and solids not fat 8.48%.

The inspection of farms has continued and results generally have been satisfactory. The Methylene Blue test has been of the greatest value in finding out " dirty milks ". In many cases the cause of a milk discolouring under five hours has been very trivial—i.e., faulty strainers or straining milk in the cow stable.

Unfortunately the supply of filter pads used by the farmers for milk straining is now exhausted so that care must be taken to produce a " Clean milk ". The filter pads, which were introduced to the majority of farmers by the Manager of the States Dairy were most hygienic, inasmuch as they could only be used once.

One farmer was prosecuted and fined £1 for selling milk with approximately 30% water added.

During the year, 268 inspections of farms, and 215 inspections of milk dépôts were made.

The following food samples were submitted for analysis and were found satisfactory :—

July to Dec.		Jan. to June.	
Flour	4	Cooking fat	1
Cooking fat	1	Margarine	3
		Guernsey Butter ...	1
		Ground Almonds ...	1
	5		6

WATER.

From January to June five samples of water were taken, four of which were sent to London for analysis. At the beginning of July, owing to changed local conditions, it was thought that there was the possibility of a water shortage. Consequently a notice was posted in the local papers offering free analysis of water for domestic purposes from supplies other than the States Water Supply. A number of people availed themselves of this opportunity, as will be seen in the table.

Water Samples taken July to December.

Public Pumps.	St. Peter Port	17		
	St. Martin's	1		
		—		18
Private Supplies.	St. Peter Port	41		
	St. Sampson's	6		
	Vale	6	Request	
	Castel	6		
	St. Saviour's	1	Analyses	
	St. Peter's	1		
	St. Martin's	12		
	St. Andrew's	2		
		—		75
States Water Board Samples...				40
				133

FOODS CONDEMNED.

The following foods were inspected and condemned as being unfit for consumption, and were destroyed.

January to June.

Ham	2 tons.	9 cwt.	3 qrs.	14 lbs. 1 oz.
Veal	—	—	—	24 lbs.
Pressed Beef	—	—	—	4 lbs.
Pork Brawn	—	—	—	6 lbs.
Turkey and Ham	—	—	—	3 lbs.
Ox Tongue	—	—	—	18 lbs.
Sausages (Pork)	—	—	1 qr.	7 lbs.
Sausages (Beef)	—	—	—	19 lbs.
Corned Pork	—	—	2 qrs.	2 lbs.
Dripping	—	—	2 qrs.	14 lbs.
Cooking Fat	—	1 cwt.	2 qrs.	—
Bacon	—	6 cwt.	2 qrs.	2 lbs. 15 ozs.
Veal and Ham Roll	—	—	—	6 lbs.
Tinned fruit	91 tins.			

July to December.

Ham	2 tons.	12 cwt.	2 qrs.	9 lbs.
Bacon	—	—	1qr.	3 lbs. 2 ozs.
Brawn	—	—	—	9 lbs.
Tongue	—	—	—	16 lbs.
Tinned Fruit	54 tins			
Tinned Milk	20 tins			
Tinned Herrings	4 tins			
Meat Paste	1 jar			
Lobster	2 jars			
Sausages	1 jar			
Beans	1 tin			
Ham	1 tin			
Apricot Curd	1 jar			
Mustard	114 tins			
Pudding Mixture	87 packets			
Jam	3 tins			
Cake Mixture	58 packets			
Rusks	21 packets			
Biscuits	2 lbs.			
Soup	3 packets			

DISINFECTIONS.

Thirteen houses were disinfected for the Homes for Workers Committee and one for the Board of Administration.

Seventy-eight rooms were disinfected in connection with notifiable infectious diseases. As usual bedding and wards were disinfected at the Town, Country and Victoria Hospitals, and the Lady Ozanne Maternity Home.

Four stables were disinfected after cases of bovine anthrax.

The month of January was a very busy one for this department, as a result of a case of malignant pustule being admitted to the King Edward Sanatorium. The man was employed by a firm of artificia. manure merchants, and was believed to have been infected by the Anthrax Bacillus, through handling these manures. Samples of various manures were taken from the firm and B. Anthracis was found in a bag of hoofs and horns. Seventy-five samples of manures were taken from the importers of manures. These were as follows :—Hoofs and horns, horn shavings, wool shoddy, blood, bone meal, Indian hoofs and meat meal. Hairs from the patient's shaving brush were also cultured. A number of mice were inoculated and cultures made from the heart, liver and spleen. A total of 136 slides were made and examined. This work extended over the whole month of January.

As will be seen from the various tables, fewer notices have been ssrved on property owners to effect repairs and/or alterations. Owing to a shortage of materials and a considerably higher cost of those procurable notices were served only in very urgent cases. Particularly during the latter half of the year, much time has been given to milk and water supplies. Under the circumstances the quality of the milk has not suffered to any appreciable extent. Up to the end of the year the average of non-fatty solids was a little lower than the previous years. The results of the Methylene Blue tests have been consistently good, and, as previously mentioned, filter pads are not obtainable, these results are very gratifying. Unfortunately we are not at present in a position to obtain bacterial counts. These, done jointly with the Methylene Blue test would be most interesting and helpful.

I am, Sir,
Your obedient Servant,

G. AUSTIN, M.S.I.A.,
Senior Sanitary Inspector.

The Medical Officer of Health,
Guernsey.

III—.1941